



New Mexico Site Characterization

REFERENCE

SITE INFORMATION

COMMENTS

C-141
C-141
C-141
C-141
NMOCD O&G Map

Site Name:	RGA #2 & #3 Battery
Coordinates:	32.300596, -104.05997
Incident Number:	napp2334153994
Land Owner:	Private
Site Elevation (ft):	2,995

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DTW INFORMATION

Cross reference USGS Map, NMOCD Map, and NMOSE Database

Closest Water Well/Soil Boring		2nd Closest Water Well/Soil Boring	
CLOSER		FALSE	
Name:	C 00154	Name:	321818104032101
Distance from Site (ft):	1,917	Distance from Site (ft):	1,992
Direction from Site:	South	Direction from Site:	Northeast
Elevation:	2,995	Elevation:	2,981
DTW (ft):	38	DTW (ft):	34.94
Total Depth (ft):	196	Total Depth (ft):	100
Date of most recent water level measurement:	1/8/2018	Date of most recent water level measurement:	2/9/1948
Coordinates:	32.295382,-103.059033	Coordinates:	32.30513,-104.05634
0 FALSE		14 feet lower in elevation than the Site	
ESTIMATED DTW @ SITE:			
<50'			

COMMENTS

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CLOSEST SIGNIFICANT WATER SOURCE

NMOCD O&G Map

Type:	Riverine Habitat
Distance (ft):	236
Direction:	South

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SITE RECEPTORS

C-141
NMOCD O&G Map
NMOCD O&G Map
OpenEnviroMap
NMOCD O&G Map
NMOCD O&G Map
OpenEnviroMap
National Wetlands Inventory
NMED Registered Mines Map
NMOCD O&G Map
NMOCD O&G Map
FEMA map
C-141

NO	Did this release impact groundwater or surface water?
YES	≤ 300 ft of a continuously flowing watercourse or any other significant watercourse?
NO	≤ 200 ft of any lakebed, sinkhole, or playa lake?
NO	≤ 300 ft of an occupied permanent residence, school, hospital, institution, or church?
NO	≤ 500 ft of a spring or a private water well used by < 5 houses for domestic or stock watering?
NO	≤ 1000 ft of any other fresh water well or spring?
NO	≤ Municipal boundaries or a defined municipal fresh water well field
NO	≤ 300 ft of a wetland?
NO	overlying a subsurface mine
NO	overlying unstable geology (HIGH KARST)?
Medium	karst potential
NO	in a 100-year floodplain?
NO	Did the release impact areas not on an exploration, development, production or storage site?

Distance from Site (ft) / Comments

236	
8,967	
9,026	
1,917	south
1,917	
9,026	
3,689	
6,095	
17,210	
114	

NMOCD TABLE 1 CLOSURE CRITERIA

TPH: 100 mg/kg Chlorides: 600 mg/kg
FALSE



September 5, 2024

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request
RGA #2 & #3 Battery
Incident Number nAPP2334153994
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the RGA #2 & #3 Battery (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a crude oil and produced water release at the Site. Based on field observations, excavation activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2334153994.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 14, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.300596°, -104.059977°) and is associated with oil and gas exploration and production operations on private land owned by UFFIE Land Com.

On December 7, 2023, a circulating pump malfunctioned, resulting in the release of approximately 95 barrels (bbls) of crude oil and 12 bbls of produced water into the earthen containment. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 92 bbls of crude oil and 5 bbls of produced water were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (C-141) on December 20, 2023. The release was assigned Incident Number nAPP2334153994.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the desktop characterization are summarized below. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-00154, located approximately 0.6 miles south of the Site. The groundwater well has a reported depth to groundwater of 38 feet bgs and a total depth of 196 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The associated well records are included in Appendix A.

BTA Oil Producers, LLC
Closure Request
RGA #2 & #3 Battery



The closest continuously flowing or significant watercourse to the Site is an irrigation canal located approximately 236 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On December 18, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Eight assessment soil samples (SS01 through SS08) were collected within and around the release area, at a depth of approximately 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chlorides using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

Laboratory analytical results for assessment soil samples SS01 through SS04, collected within the release area, indicated TPH and chloride concentrations exceeded the Closure Criteria at the ground surface. Laboratory analytical results for assessment soil samples SS05 through SS08, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Vertical delineation activities and excavation activities appeared warranted to determine the depth of impacts and to address the elevated TPH and chloride concentrations observed.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On January 12, 2024, Ensolum personnel were at the Site to complete delineation activities based on laboratory analytical results for assessment soil samples SS01 through SS04. Four boreholes (BH01 through BH04) were advanced via hand auger within the release extent. The delineation boreholes were advanced to depths ranging from 1-foot to 3 feet bgs due to auger refusal. Discrete delineation soil samples were collected from the boreholes at depths of 1-foot to 3 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures described above. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix

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RGA #2 & #3 Battery



C. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included as Appendix B.

Laboratory analytical results for delineation soil samples BH01 through BH04, collected at depths ranging from 1-foot to 3 feet bgs within the release extent, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results, excavation activities were warranted. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

Between January and May 2024, BTA operations decommissioned and removed the tank battery to provide access to the impacted soil.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between May 17, 2024, and July 30, 2024, Ensolum personnel were on Site to oversee excavation activities. Excavation activities were performed using a backhoe, hydrovacuum truck, hand shovels, and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 3 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 and FS19 were collected from the floor of the excavation at a depth of 3 feet bgs. Composite soil samples SW01 through SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation soil samples FS01, FS02, FS05, FS09 through FS11, FS13, FS17, SW01, SW03, SW05 and SW06 indicated all COC concentrations were compliant with the most stringent Table 1 Closure Criteria. Ensolum personnel returned to the Site to do additional scraping on the excavation floor and extend sidewalls. The extended excavation soil samples indicated that all COC concentrations were in compliance with the Closure Criteria. Laboratory analytical results are summarized on Table 1 and laboratory analytical reports are included as Appendix D.

The aerial footprint of the excavation measured approximately 3,750 square feet. A total of 420 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal in Hobbs, New Mexico. The final remediation extent is presented on Figure 3.

CLOSURE REQUEST

Delineation and excavation activities were conducted at the Site to address the December 2023, produced water and crude oil release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Closure Criteria. Additionally, the release was vertically and laterally delineated to the Closure Criteria. Based on laboratory analytical results, impacted soil exceeding the Site Closure Criteria has been excavated and no further remediation is required at this time.

Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater was determined to be less than 50 feet bgs within 0.5 miles of the Site and some sensitive receptors were identified near the release extent. As such, the Site was remediated according to the most stringent Table 1 Closure Criteria. BTA believes the remedial actions completed


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are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2334153994.

If you have any questions or comments, please contact Mrs. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Tacoma Morrissey
Associate Principal

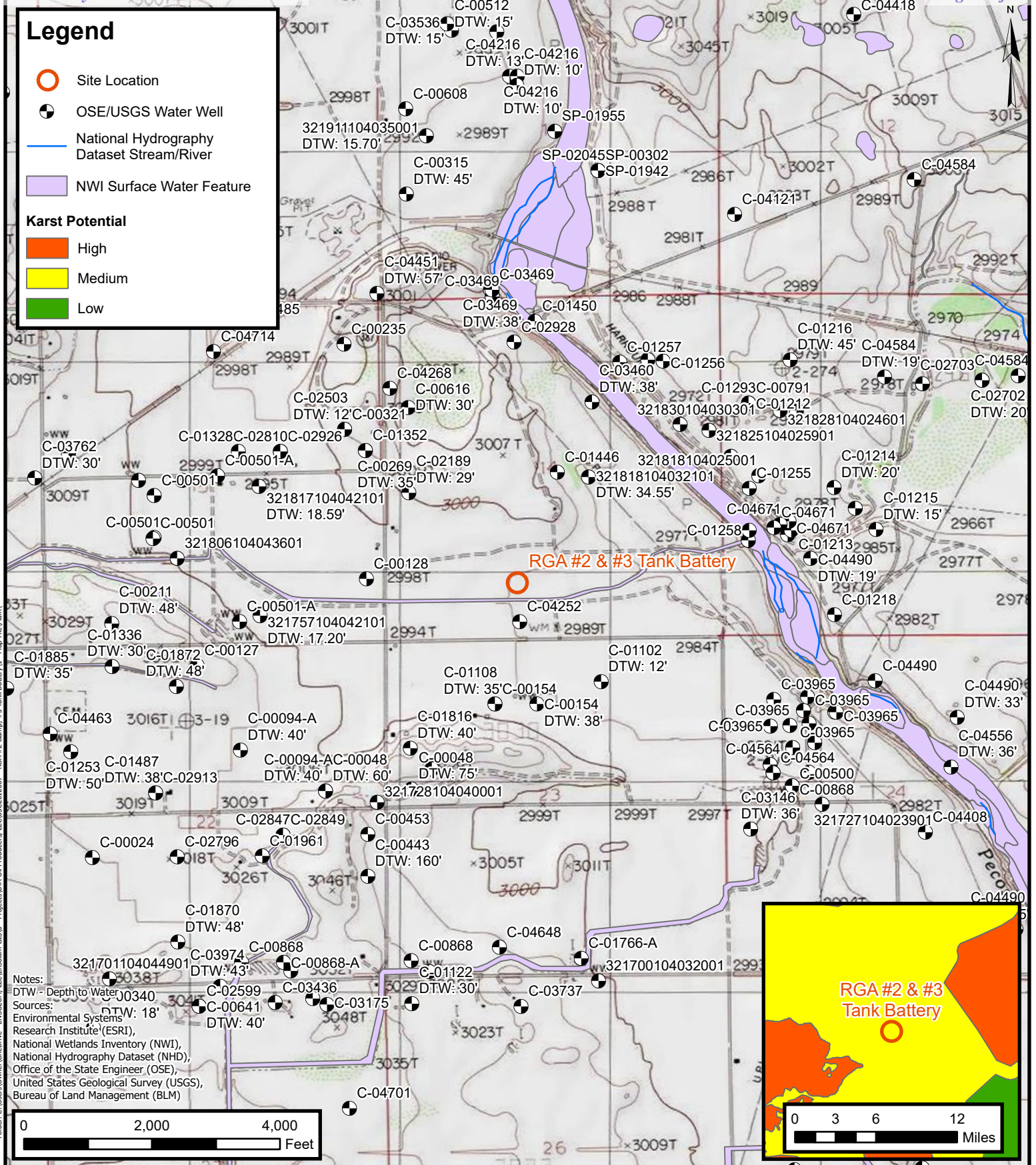
cc: Ray Ramos, BTA
Nathan Sirgo, BTA
UFFIE Land Com, Landowner

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



Site Receptor Map

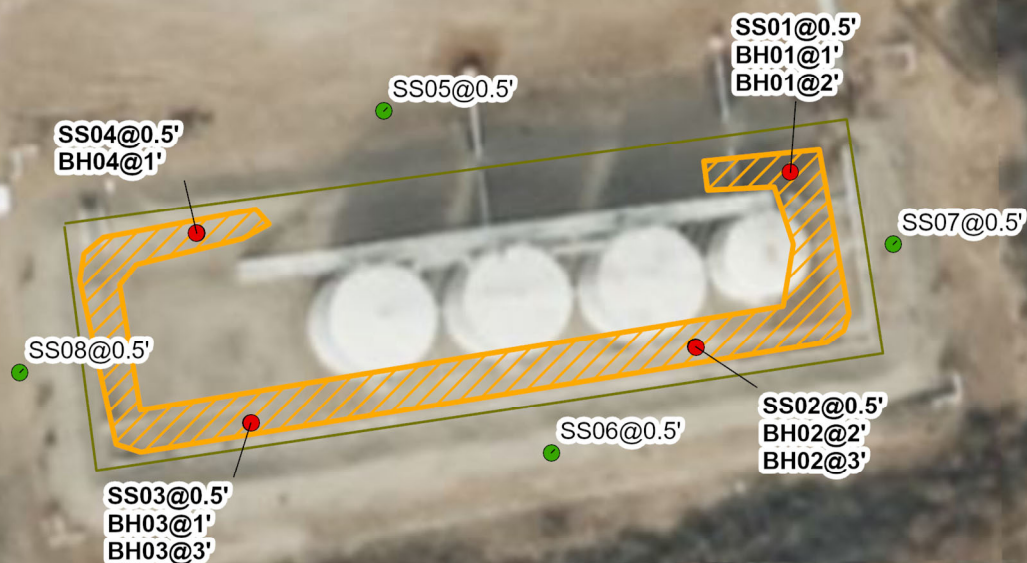
BTA Oil Producers, LLC
RGA #2 & #3 Tank Battery
Incident Number: nAPP2334153994
Unit N, Sec 14, T23S, R28E
Eddy County, New Mexico

FIGURE

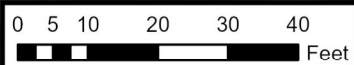
1

Legend

- Assessment Sample Location in Compliance with Closure Criteria
- Assessment Sample Location with Concentrations Exceeding Closure Criteria
- Earthen Containment
- ▨ Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)



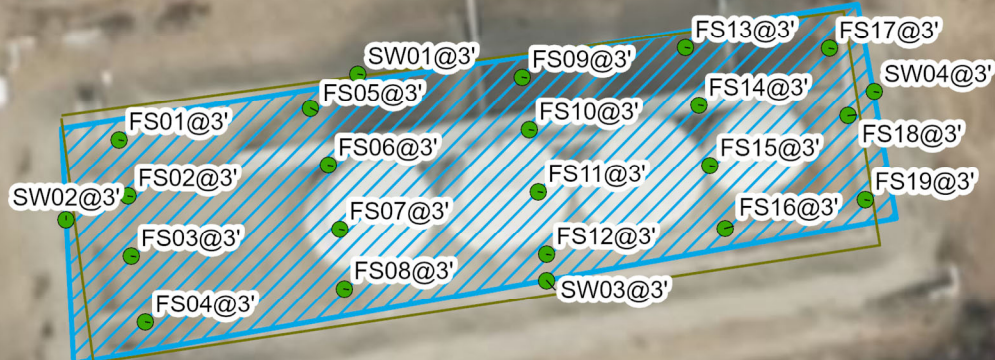
Delineation Soil Sample Locations

BTA Oil Producers, LLC
 RGA #2 & #3 Tank Battery
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 Unit N, Sec 14, T23S, R28E
 Eddy County, New Mexico

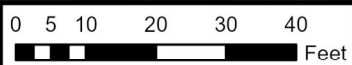
FIGURE
2

Legend

- Excavation Sample Location in Compliance with Closure Criteria
- Earthen Containment
- ▨ Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

BTA Oil Producers, LLC
RGA #2 & #3 Tank Battery
Incident Number: nAPP2334153994
Unit N, Sec 14, T23S, R28E
Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
RGA #2 & #3 Tank Battery
BTA Oil Producers, LLC
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	12/18/2023	0.5	45.4	721	17,200	28,500	5,440	45,700	51,140	5,860
SS02	12/18/2023	0.5	5.62	413	9,810	21,200	3,930	31,010	34,940	2,480
SS03	12/18/2023	0.5	13.9	262	5,000	8,660	1,730	13,660	15,390	3,120
SS04	12/18/2023	0.5	15.0	288	6,740	13,700	2,540	20,440	22,980	2,400
SS05	12/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS06	12/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	12/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	12/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Delineation Soil Samples										
BH01	01/12/2024	1	<0.050	2.34	71.4	776	141	847	988	80.0
BH01	01/12/2024	2	<0.050	5.76	165	1,350	268	1,515	1,783	112
BH02	01/12/2024	2	<0.050	3.24	55.2	315	111	370	481	1,410
BH02	01/12/2024	3	<0.050	0.454	10.8	128	20.7	139	160	2,440
BH03	01/12/2024	1	0.094	22.1	267	1,240	278	1,507	1,785	5,280
BH03	01/12/2024	3	0.052	15.3	96.3	604	117	700	817	3,320
BH04	01/12/2024	1	<0.050	2.10	125	3,230	787	3,355	4,142	224
Excavation Floor Soil Samples										
FS01	05/17/2024	3	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	208
FS02	05/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS03	05/17/2024	3	<0.050	<0.300	<10.0	598	199	598	797	224
FS03	06/21/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS04	05/17/2024	3	<0.050	<0.300	<10.0	1,570	508	1,570	2,078	304
FS04	06/21/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS05	05/17/2024	3	<0.050	<0.300	<10.0	12.5	<10.0	12.5	12.5	272
FS06	05/17/2024	3	<0.050	<0.300	<10.0	153	49.8	153	203	208
FS06	06/21/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS07	05/17/2024	3	<0.050	<0.300	<10.0	62.0	20.2	62.0	82.2	128
FS08	05/17/2024	3	<0.050	<0.300	<10.0	141	65.1	141	206	128
FS08	06/21/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS09	05/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS10	05/17/2024	3	<0.050	<0.300	<10.0	14.1	<10.0	14.1	14.1	352
FS11	05/17/2024	3	<0.050	<0.300	<10.0	13.7	<10.0	13.7	13.7	256



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
RGA #2 & #3 Tank Battery
BTA Oil Producers, LLC
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS12	05/17/2024	3	<0.050	<0.300	<10.0	93.6	45.9	93.6	140	432
FS12	07/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS13	05/17/2024	3	<0.050	<0.300	<10.0	51.8	19.9	51.8	71.7	176
FS14	07/17/2024	3	<0.050	<0.300	<10.0	12.2	<10.0	12.2	12.2	2,180
FS14	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS15	07/17/2024	3	<0.050	<0.300	<10.0	79.6	10.1	79.6	89.7	2,600
FS15	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS16	07/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,100
FS16	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS17	07/17/2024	3	<0.050	<0.300	<10.0	15.1	<10.0	15.1	15.1	512
FS18	07/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	864
FS18	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS19	07/17/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,840
FS19	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Excavation Sidewall Soil Samples										
SW01	06/21/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW02	05/17/2024	0 - 3	<0.050	<0.300	<10.0	140	64.6	140	205	400
SW02	06/21/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW03	07/17/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW04	07/17/2024	0 - 3	<0.050	<0.300	<10.0	104	81.7	104	186	128
SW04	07/30/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW05	07/17/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW06	07/17/2024	0 - 3	<0.050	<0.300	<10.0	40.1	34.4	40.1	74.5	32.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 00154	4	2	1	23	23S	28E	588595	3573566*

Driller License: 24 **Driller Company:** BRININSTOOL, M.D.

Driller Name: HOWARD P. HEMLER

Drill Start Date: 08/15/1974	Drill Finish Date: 08/20/1974	Plug Date:
Log File Date: 02/11/1975	PCW Rev Date: 03/03/1975	Source: Shallow
Pump Type: TURBIN	Pipe Discharge Size: 8	Estimated Yield: 2500 GPM
Casing Size: 18.00	Depth Well: 196 feet	Depth Water: 38 feet

Water Bearing Stratifications:	Top	Bottom	Description
	40	50	Sandstone/Gravel/Conglomerate
	80	110	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	80	110

Meter Number: 4960	Meter Make: MCCROMETER
Meter Serial Number: 02-8-03200	Meter Multiplier: 1.0000
Number of Dials: 3	Meter Type: Diversion
Unit of Measure: Acre-Feet	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
09/17/2001	2001	4	A	RPT		3.653
09/17/2001	2001	0	A	RPT		0
09/27/2001	2001	8	A	ms		4.105
03/26/2002	2002	17	A	MB		9.350
09/03/2002	2002	74	A	ms		56.750
04/01/2003	2002	93	A	MS		19.374
06/03/2003	2003	138	A	ms		44.616
08/20/2003	2003	199	A	ab		61.646
10/27/2003	2003	222	A	TW		22.958
01/06/2004	2003	222	A	ab		0
05/12/2004	2004	243	A	TW		20.796
07/14/2004	2004	243	A	ms		0
10/20/2004	2004	249	A	TW		5.349
01/03/2005	2004	249	A	TW		0
03/30/2005	2005	249	A	JW		0
07/06/2005	2005	249	A	JW		0
01/05/2006	2005	249	A	TW		0
04/05/2006	2006	249	A	tw		0
07/06/2006	2006	249	A	tw		0

01/04/2007	2006	249	A	tw	0
04/27/2007	2007	249	A	tw	0
04/28/2007	2007	251	A	tw	0
07/03/2007	2007	251	A	tw	0
10/10/2007	2007	251	A	tw	0
01/03/2008	2007	251	A	tw	0
04/24/2008	2008	251	A	tw	0
07/16/2008	2008	253	A	tw	1.264
10/02/2008	2008	283	A	tw	30.342
01/15/2009	2008	283	A	tw	0
04/22/2009	2009	329	A	tw	46.004
06/07/2009	2009	391	A	tw	61.893
01/06/2010	2009	431	A	tw	40.040
06/02/2010	2010	482	A	tw	50.525
01/12/2011	2010	510	A	tw	28.660
01/23/2012	2011	839	A	tw	329.303
03/12/2012	2012	840	A	tw	0.112
07/02/2012	2012	968	A	tw	128.652
02/12/2013	2012	88	R	tw	Meter Rollover 119.870
11/05/2013	2013	378	A	tw	290.001
06/10/2014	2014	378	A	tw	0
01/27/2015	2014	378	A	tw	0
01/28/2015	2015	0	A	tw	0
07/24/2015	2015	0	A	tw	0.360
02/27/2016	2016	0	A	tw	0
08/19/2016	2016	0	A	tw	0
12/28/2016	2016	0	A	tw	0
07/20/2017	2017	0	A	tw	0
01/08/2018	2017	0	A	tw	0

^x
****YTD Meter Amounts:**

Year	Amount
2001	7.758
2002	85.474
2003	129.220
2004	26.145
2005	0
2006	0
2007	0
2008	31.606
2009	147.937
2010	79.185
2011	329.303
2012	248.634
2013	290.001
2014	0
2015	0.360
2016	0
2017	0

^x
 *UTM location was derived from PLSS - see Help



APPENDIX B

Photographic Log



Photographic Log
BTA Oil Producers
RGA #2 & #3 Battery
nAPP2334153994



Photograph: 1 Date: 12/18/2024
Description: Initial site assessment
View: West



Photograph: 2 Date: 1/12/2024
Description: Delineation activities
View: East



Photograph: 3 Date: 4/29/2024
Description: Tank removal and excavation activities
View: Southeast



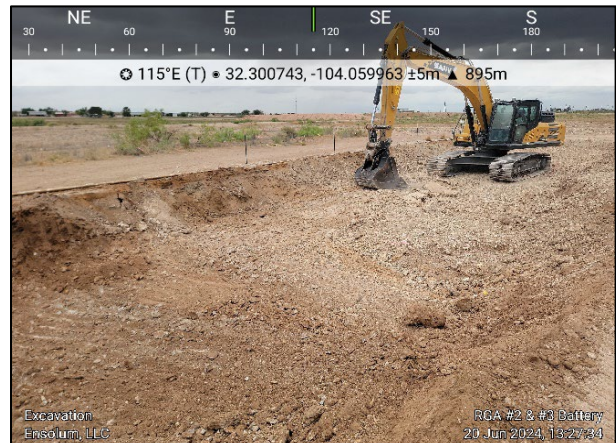
Photograph: 4 Date: 5/1/2024
Description: Excavation activities
View: East



Photographic Log
BTA Oil Producers
RGA #2 & #3 Battery
nAPP2334153994



Photograph: 5 Date: 5/17/2024
Description: Excavation activities
View: West



Photograph: 6 Date: 6/20/2024
Description: Excavation activities
View: Southeast



Photograph: 7 Date: 7/17/2024
Description: Excavation activities
View: Southwest





Photograph: 8 Date: 7/30/2024
Description: Final excavation extent
View: West





APPENDIX C

Lithologic Soil Sampling Logs

						Sample Name: BH01		Date: 1/12/2024	
						Site Name: RGA #2 & #3 Battery			
						Incident Number: nAPP2334153994			
						Job Number: 03C2012087			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: SK		Method: Hand Auger	
Coordinates: 32.300636, -104.059850						Hole Diameter: 4"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor was included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
M	10,236	2,048	Y	SS01	0.5	0	CCHE	(0-2') CALICHE, tan, fine grained, poorly graded odor present	
D	<196	300.7	N	BH01	1	1			
D	<196	218.4	N	BH01	2	2			
Total Depth @ 2 feet bgs - Auger Refusal									

		Sample Name: BH02		Date: 1/12/2024				
		Site Name: RGA #2 & #3 Battery						
		Incident Number: nAPP2334153994						
		Job Number: 03C2012087						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: SK		Method: Hand Auger		
Coordinates: 32.300568, -104.059895				Hole Diameter: 4"		Total Depth: 3'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	3,035	1,531	Y	SS02	0.5	0	CCHE	(0-3') CALICHE, tan, fine grained, poorly graded odor present
D	1,025	581	N		1	1		
D	1,299	624	N	BH02	2	2		
D	1742	570	N	BH02	3	3		
Total Depth @ 3 feet bgs - Auger Refusal								

		Sample Name: BH03		Date: 1/12/2024					
		Site Name: RGA #2 & #3 Battery							
		Incident Number: nAPP2334153994							
		Job Number: 03C2012087							
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: SK		Method: Hand Auger	
Coordinates: 32.300539, -104.060100						Hole Diameter: 4"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor was included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
M	3,483	1,531	Y	SS03	0.5	0	CCHE	(0-3') CALICHE, tan, fine grained, poorly graded odor present	
D	>3517	747	N	BH03	1	1			
D	3259	592	N		2	2			
D	>3517	566	N	BH03	3	3			
						Total Depth @ 3 feet bgs - Auger Refusal			

					Sample Name: BH04		Date: 1/12/2024	
					Site Name: RGA #2 & #3 Battery			
					Incident Number: nAPP2334153994			
					Job Number: 03C2012087			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: SK		Method: Hand Auger	
Coordinates: 32.300614, -104.060124					Hole Diameter: 4"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor was included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	2,637	2,143	Y	SS04	0.5	0	CCHE	(0-1') CALICHE, tan, fine grained, poorly graded odor present
D	235	76.4	N	BH04	1	1		
Total Depth @ 1-foot bgs - Auger Refusal								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 21, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/19/2023
Reported: 12/21/2023
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA

Sampling Date: 12/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 01 0.5' (H236742-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	45.4	5.00	12/20/2023	ND	2.07	103	2.00	0.966	QM-07, QR-03
Toluene*	259	5.00	12/20/2023	ND	2.16	108	2.00	2.95	QM-07, QR-03
Ethylbenzene*	78.2	5.00	12/20/2023	ND	2.13	107	2.00	3.22	QM-07, QR-03
Total Xylenes*	338	15.0	12/20/2023	ND	6.42	107	6.00	3.67	QM-07, QR-03
Total BTEx	721	30.0	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5860	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	17200	50.0	12/20/2023	ND	180	90.0	200	10.5		
DRO >C10-C28*	28500	50.0	12/20/2023	ND	189	94.7	200	13.8		
EXT DRO >C28-C36	5440	50.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 700 % 48.2-134

Surrogate: 1-Chlorooctadecane 514 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/19/2023
Reported: 12/21/2023
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA

Sampling Date: 12/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 0.5' (H236742-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.62	5.00	12/20/2023	ND	2.07	103	2.00	0.966	
Toluene*	104	5.00	12/20/2023	ND	2.16	108	2.00	2.95	
Ethylbenzene*	53.8	5.00	12/20/2023	ND	2.13	107	2.00	3.22	
Total Xylenes*	250	15.0	12/20/2023	ND	6.42	107	6.00	3.67	
Total BTEX	413	30.0	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9810	50.0	12/20/2023	ND	180	90.0	200	10.5	
DRO >C10-C28*	21200	50.0	12/20/2023	ND	189	94.7	200	13.8	
EXT DRO >C28-C36	3930	50.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 551 % 48.2-134

Surrogate: 1-Chlorooctadecane 379 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/19/2023
Reported: 12/21/2023
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA

Sampling Date: 12/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 0.5' (H236742-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.9	5.00	12/20/2023	ND	2.07	103	2.00	0.966	
Toluene*	90.4	5.00	12/20/2023	ND	2.16	108	2.00	2.95	
Ethylbenzene*	29.3	5.00	12/20/2023	ND	2.13	107	2.00	3.22	
Total Xylenes*	129	15.0	12/20/2023	ND	6.42	107	6.00	3.67	
Total BTEX	262	30.0	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5000	50.0	12/20/2023	ND	180	90.0	200	10.5	
DRO >C10-C28*	8660	50.0	12/20/2023	ND	189	94.7	200	13.8	
EXT DRO >C28-C36	1730	50.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 266 % 48.2-134

Surrogate: 1-Chlorooctadecane 182 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/19/2023
Reported: 12/21/2023
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA

Sampling Date: 12/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 0.5' (H236742-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	15.0	5.00	12/20/2023	ND	2.07	103	2.00	0.966	
Toluene*	95.7	5.00	12/20/2023	ND	2.16	108	2.00	2.95	
Ethylbenzene*	32.6	5.00	12/20/2023	ND	2.13	107	2.00	3.22	
Total Xylenes*	145	15.0	12/20/2023	ND	6.42	107	6.00	3.67	
Total BTEX	288	30.0	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6740	50.0	12/20/2023	ND	180	90.0	200	10.5	
DRO >C10-C28*	13700	50.0	12/20/2023	ND	189	94.7	200	13.8	
EXT DRO >C28-C36	2540	50.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 405 % 48.2-134

Surrogate: 1-Chlorooctadecane 256 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/19/2023
Reported: 12/21/2023
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA

Sampling Date: 12/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 05 0.5' (H236742-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/19/2023
Reported: 12/21/2023
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA

Sampling Date: 12/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 06 0.5' (H236742-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/19/2023
Reported: 12/21/2023
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA

Sampling Date: 12/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 07 0.5' (H236742-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	<0.050	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/19/2023
Reported: 12/21/2023
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA

Sampling Date: 12/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 08 0.5' (H236742-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.07	103	2.00	0.966		
Toluene*	0.098	0.050	12/20/2023	ND	2.16	108	2.00	2.95		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.13	107	2.00	3.22		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.42	107	6.00	3.67		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/20/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum LLC		BILL TO		ANALYSIS REQUEST										
Project Manager: Hadlie Green		P.O. #:												
Address: 3122 National Parks Hwy		Company: BTA Oil												
City: Carlsbad		Attn: Kelton Beaird												
Phone #: 432 557-8895		Address: 104 S Pecos St												
Fax #:		City: Midland												
Project #: 03C2012087		State: TX												
Project Owner: BTA		Zip: 79701												
Project Location:		Phone #:												
Sampler Name: Connor Whitman		Fax #:												
FOR LAB USE ONLY														
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING				
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
1	SS01	0.5'	G	1										
2	SS02			1										
3	SS03			1										
4	SS04			1										
5	SS05			1										
6	SS06			1										
7	SS07			1										
8	SS08			1										
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Relinquished By:		Received By:		REMARKS:										
Date: 8/19/23		Date: 8/19/23		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:										
Time: 1440		Time: 1440		All Results are emailed. Please provide Email address:										
Relinquished By:		Received By:												
Date:		Date:												
Time:		Time:												
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:		Turnaround Time:		Standard				
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)		Thermometer ID: #113		Rush <input checked="" type="checkbox"/> <input type="checkbox"/>				
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		SJC		Correction Factor: 0.5°C		Bacteria (only) Sample Condition				
										Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				
										Observed Temp. °C				
										Corrected Temp. °C				



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 17, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/12/24 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/12/2024
 Reported: 01/17/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 01 1' (H240149-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	0.151	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	0.361	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	1.83	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
Total BTEX	2.34	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	71.4	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	776	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	141	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/12/2024
 Reported: 01/17/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 01 2' (H240149-02)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	0.420	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	0.906	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	4.43	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
Total BTEX	5.76	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 164 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	165	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	1350	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	268	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/12/2024
 Reported: 01/17/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 02 2' (H240149-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	0.372	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	0.520	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	2.35	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
Total BTEX	3.24	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	01/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	55.2	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	315	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	111	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/12/2024
 Reported: 01/17/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 02 3' (H240149-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	0.071	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	0.383	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
Total BTEX	0.454	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	01/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.8	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	128	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	20.7	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/12/2024
 Reported: 01/17/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 03 1' (H240149-05)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.094	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	4.03	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	3.03	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	14.9	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
Total BTEx	22.1	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 215 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	01/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	267	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	1240	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	278	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/12/2024
 Reported: 01/17/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 03 3' (H240149-06)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	2.46	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	2.25	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	10.5	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
Total BTEX	15.3	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 181 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	01/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	96.3	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	604	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	117	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/12/2024
 Reported: 01/17/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 01/12/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 04 1' (H240149-07)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.10	
Toluene*	0.074	0.050	01/13/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	0.301	0.050	01/13/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	1.72	0.150	01/13/2024	ND	6.45	107	6.00	3.37	
Total BTEX	2.10	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	125	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	3230	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	787	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Hadlie Green		BILL TO		ANALYSIS REQUEST	
Address: 691 N Mariensfeld St. STE 402		P.O. #:			
City: Midland TX		State: TX		Company: BTA O.I. Products	
Phone #: 432-554-8845		Fax #: 79701		Attn: Kellen Benard	
Project #: 03C2012087		Project Owner:		Address: 104 Sikes St.	
Project Name: R5A #2 & #3 Borehole		City: Midland		State: TX	
Project Location: Faddy County		State: TX		Zip: 79701	
Sampler Name: SK		Phone #:		Fax #:	
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX
					GROUNDWATER
					WASTEWATER
					SOIL
					OIL
					SLUDGE
					OTHER :
					ACID/BASE:
					ICE / COOL
					OTHER :
					DATE
					TIME
					TPH 8015
					BTEX 8021
					Chloride 4500

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Relinquished By: [Signature] **Date:** 10-24 **Received By:** [Signature] **Date:** 10-24

Relinquished By: [Signature] **Date:** 10-24 **Received By:** [Signature] **Date:** 10-24

Delivered By: (Circle One) **Observed Temp. °C** 4.9 **Sample Condition** **CHECKED BY:** [Signature]

Sampler - UPS - Bus - Other: **Corrected Temp. °C** **Sample Condition** **CHECKED BY:** [Signature]

Turnaround Time: **Standard** **Bacteria (only) Sample Condition** **Thermometer ID:** #13 **Flask** **Coil Intact** **Observed Temp. °C** **Corrosion Factor:** 0.5 **Yes** **No** **Corrected Temp. °C**

REMARKS:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:

Cardinal cannot accept verbal changes. Please email changes to caley.lee@cardinalhenn.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 24, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/20/24 16:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 01 3' (H242770-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89	
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31	
Total BTX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/21/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	10.6	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 02 3' (H242770-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.83	91.3	2.00	2.89		
Toluene*	<0.050	0.050	05/22/2024	ND	1.84	92.1	2.00	1.15		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.90	95.2	2.00	3.06		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.48	108	6.00	5.31		
Total BTX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 03 3' (H242770-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEx	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	598	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	199	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 04 3' (H242770-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	185	92.3	200	0.522	
DRO >C10-C28*	1570	10.0	05/21/2024	ND	178	89.2	200	0.113	
EXT DRO >C28-C36	508	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 05 3' (H242770-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	12.5	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 06 3' (H242770-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEx	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	153	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	49.8	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 07 3' (H242770-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	62.0	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	20.2	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 08 3' (H242770-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	141	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	65.1	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 09 3' (H242770-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEx	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 10 3' (H242770-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEx	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	14.1	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 11 3' (H242770-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	13.7	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 12 3' (H242770-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	93.6	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	45.9	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 13 3' (H242770-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEx	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/21/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	51.8	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	19.9	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/20/2024
Reported: 05/24/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 05/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 02 0 - 3' (H242770-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.94	97.0	2.00	5.52		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	3.21		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.89	94.3	2.00	1.97		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.42	90.3	6.00	2.10		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/21/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	191	95.4	200	1.86	
DRO >C10-C28*	140	10.0	05/21/2024	ND	188	94.2	200	1.44	
EXT DRO >C28-C36	64.6	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Caley D. Keene".

Caley D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 19, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/18/24 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 12 3' (H244312-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	1.47	
Toluene*	<0.050	0.050	07/18/2024	ND	2.19	109	2.00	0.843	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.25	113	2.00	0.508	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.00	117	6.00	0.527	
Total BTX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 3' (H244312-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	1.47		
Toluene*	<0.050	0.050	07/18/2024	ND	2.19	109	2.00	0.843		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.25	113	2.00	0.508		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	7.00	117	6.00	0.527		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2180	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	12.2	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 3' (H244312-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	1.47		
Toluene*	<0.050	0.050	07/19/2024	ND	2.19	109	2.00	0.843		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.25	113	2.00	0.508		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	7.00	117	6.00	0.527		
Total BTEx	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	79.6	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	10.1	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 3' (H244312-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	1.47		
Toluene*	<0.050	0.050	07/19/2024	ND	2.19	109	2.00	0.843		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.25	113	2.00	0.508		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	7.00	117	6.00	0.527		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 17 3' (H244312-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	1.47		
Toluene*	<0.050	0.050	07/19/2024	ND	2.19	109	2.00	0.843		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.25	113	2.00	0.508		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	7.00	117	6.00	0.527		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	15.1	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 3' (H244312-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.01	100	2.00	7.28		
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 3' (H244312-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.01	100	2.00	7.28		
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	0.978	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	198	98.9	200	0.367	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 03 0-3' (H244312-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.01	100	2.00	7.28		
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	200	99.8	200	14.0	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	196	98.0	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 04 0-3' (H244312-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.01	100	2.00	7.28		
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	200	99.8	200	14.0	
DRO >C10-C28*	104	10.0	07/18/2024	ND	196	98.0	200	14.2	
EXT DRO >C28-C36	81.7	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 05 0-3' (H244312-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.01	100	2.00	7.28		
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92		
Total BTEx	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	200	99.8	200	14.0	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	196	98.0	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 07/18/2024
Reported: 07/19/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 07/17/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 0-3' (H244312-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2024	ND	2.01	100	2.00	7.28		
Toluene*	<0.050	0.050	07/18/2024	ND	1.98	98.9	2.00	7.06		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	99.9	2.00	6.84		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.87	97.9	6.00	6.92		
Total BTEx	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/19/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	200	99.8	200	14.0	
DRO >C10-C28*	40.1	10.0	07/18/2024	ND	196	98.0	200	14.2	
EXT DRO >C28-C36	34.4	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Released to Imaging: 10/17/2024 9:46:39 AM



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Hadlie Green Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 432 557-8895 Fax #: Project #: 03C2012087 Project Owner: BTA Project Name: RGA #2 and #3 Battery Project Location: Sampler Name: Jesse Dorman				P.O. #: Company: BTA Oil Attn: Ray Ramos Address: 104 S Pecos St City: Midland State: TX Zip: 79701 Phone #: Fax #:			
FOR LAB USE ONLY				BILL TO			
Lab I.D. 1844312 11	Sample I.D. SW06	Sample Depth (feet) 0-3'	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV.	SAMPLING DATE TIME	BTEX chloride TPT	
PLEASE NOTE: Liability and Damages. Cardnet's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardnet within 30 days after completion of the applicable service. In no event shall Cardnet be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardnet, regardless of whether such claim is based upon any of the above stated reasons or otherwise.							
Relinquished By: [Signature]		Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: HGreen@ensolum.com		REMARKS: Incident: nAAPP2334153994 BTA Incident: #67	
Relinquished By: [Signature]		Date: 7/18/24 Time: 1350		Received By: [Signature]		Turnaround Time: #140 Thermometer ID: #113 Correction Factor: 0.0°C	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 0.3°C Corrected Temp. °C		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: [Signature]	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 0.3°C Corrected Temp. °C		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: [Signature]	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 26, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 14:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/30/2024
 Reported: 08/26/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 07/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 14 3' (H244533-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99	
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81	
Total BTEX	<0.300	0.300	07/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/31/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/30/2024
 Reported: 08/26/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 07/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 15 3' (H244533-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99		
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/31/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/30/2024
 Reported: 08/26/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 07/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 16 3' (H244533-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99		
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/31/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/30/2024
 Reported: 08/26/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 07/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 18 3' (H244533-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99		
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/31/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/30/2024
 Reported: 08/26/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 07/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 19 3' (H244533-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99		
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/31/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 07/30/2024
 Reported: 08/26/2024
 Project Name: RGA #2 & #3 BATTERY
 Project Number: 03C2012087
 Project Location: BTA - EDDY CO

Sampling Date: 07/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 04 0-3' (H244533-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2024	ND	1.87	93.4	2.00	5.99		
Toluene*	<0.050	0.050	07/30/2024	ND	1.86	92.8	2.00	6.17		
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	1.96	98.1	2.00	5.85		
Total Xylenes*	<0.150	0.150	07/30/2024	ND	5.79	96.4	6.00	5.81		
Total BTEX	<0.300	0.300	07/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/31/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	201	100	200	3.61	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	185	92.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BTA Incident #67

BILL TO

ANALYSIS REQUEST

Company Name: ENSOUM LLC		P.O. #:	
Project Manager: HADRIE GORDON		Company: BTA oil probes	
Address: 601 N Marland St, Ste. 400		Attn: RAY POWERS	
City: Midland, TX		Address:	
Phone #: 432-550-8895		City:	
Project #: 0362012887		State:	
Project Name: R64 #2 and #3 BATHORY		Zip:	
Project Location: Eddy County, New Mexico		Phone #:	
Sampler Name: Neal Butler		Fax #:	

Lab I.D.	Sample I.D.	PEM	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	ANALYSIS REQUEST						
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:			ICE / COOL	OTHER:	DATE	TIME	BTEX	TPH	Chlorides
H24U533	F414	3		1																
	F415	3		1																
	F416	3		1																
	F418	3		1																
	F419	3		1																
	F420	3		1																
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	F498	3		1																
	F499	3		1																
	F500	3		1																

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/>	(Initials)	Thermometer ID #140	Rush <input type="checkbox"/>	Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/>	Observed Temp. °C
FORM 000-R-3-4 07/11/23				Correction Factor 0°C			Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

REMARKS: *Customer requested Depth changes.*

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

All Results are emailed. Please provide Email address:

h24u533@ensoum.com / +MORRIS@ensoum.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 26, 2024

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: RGA #2 & #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/26/24 14:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/26/2024

Reported: 08/26/2024

Project Name: RGA #2 & #3 BATTERY

Project Number: 03C2012087

Project Location: BTA 32.300596,-104.05997

Sampling Date: 06/21/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Alyssa Parras

Sample ID: SW 01 0-3' (H243832-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	1.90	95.0	2.00	6.89	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96	
Total BTEX	<0.300	0.300	07/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/26/2024
Reported: 08/26/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 06/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 02 0-3' (H243832-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/26/2024
Reported: 08/26/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 06/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 03 3' (H243832-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/02/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/26/2024
Reported: 08/26/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 06/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 04 3' (H243832-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/26/2024
Reported: 08/26/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 06/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 06 3' (H243832-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.57	109	6.00	3.96		
Total BTEx	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 06/26/2024
Reported: 08/26/2024
Project Name: RGA #2 & #3 BATTERY
Project Number: 03C2012087
Project Location: BTA 32.300596,-104.05997

Sampling Date: 06/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 08 3' (H243832-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.90	95.0	2.00	6.89		
Toluene*	<0.050	0.050	07/02/2024	ND	2.08	104	2.00	5.09		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.11	106	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.57	109	6.00	3.96		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/02/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	186	93.0	200	0.659	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	179	89.3	200	0.905	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Hadlie Green Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 432 557-8895 Fax #: Project #: 03C2012087 Project Owner: BTA Project Name: RGA #2 and #3 Battery Project Location:										P.O. #: Company: BTA Oil Attn: Ray Ramos Address: 104 S Pecos St City: Midland State: TX Zip: 79701 Phone #: Fax #:		BILL TO		ANALYSIS REQUEST							
Sample Name: Jesse Permal FOR LAB USE ONLY										Fax #:											
Lab I.D. 11243832		Sample I.D. Sample I.D.		Sample Depth (feet) 0-3'		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		MATRIX PRESERV.		SAMPLING DATE TIME		Chloride TPh BTEX									
SV01		0-3'		C		1		✓		6/24/14 11:13											
SV04		0-3'		C		1		✓		6/24/14 9:44											
SV03		3'		C		1		✓		6/24/14 12:19											
SV04		3'		C		1		✓		6/24/14 12:37											
SV06		3'		C		1		✓		6/24/14 12:00											
SV06		35'		C		1		✓		6/24/14 13:31											
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Relinquished By: Jesse Permal Date: 6/24/14 Time: 0700										Received By: 											
Relinquished By: Jesse Permal Date: 6/24/14 Time: 1149										Received By: 											
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Observed Temp. °C 54°C Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) AP		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #: 113 Correction Factor: -0.5°C		Bacteria (only) Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C Corrected Temp. °C	
REMARKS: Incident: nAPP234153994 *Customer requested Depth check																					

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 381066

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	381066
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2334153994
Incident Name	NAPP2334153994 RGA #2 & #3 BATTERY @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2201821083] RGA #2 & #3

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RGa #2 & #3 Battery
Date Release Discovered	12/07/2023
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Water Tank Crude Oil Released: 95 BBL Recovered: 92 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Water Tank Produced Water Released: 12 BBL Recovered: 5 BBL Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A dump valve on the heater failed open, sending excess oil to the water tank, causing it to overflow. All fluid stayed within the earthen berm containment.

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QUESTIONS, Page 2

Action 381066

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	381066
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/20/2023
--	--

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District III

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District IV

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Oil Conservation Division
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QUESTIONS, Page 3

Action 381066

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	381066
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 100 and 200 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	5860
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	51140
GRO+DRO	(EPA SW-846 Method 8015M)	45700
BTEX	(EPA SW-846 Method 8021B or 8260B)	721
Benzene	(EPA SW-846 Method 8021B or 8260B)	45.4

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/18/2023
On what date will (or did) the final sampling or liner inspection occur	07/30/2024
On what date will (or was) the remediation complete(d)	07/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	3750
What is the estimated volume (in cubic yards) that will be reclaimed	420
What is the estimated surface area (in square feet) that will be remediated	3750
What is the estimated volume (in cubic yards) that will be remediated	420

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Phone:(575) 748-1283 Fax:(575) 748-9720
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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 381066

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 09/05/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 381066

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	381066
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 381066

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	381066
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	366474
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/30/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1650

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3750
What was the total volume (cubic yards) remediated	420
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3750
What was the total volume (in cubic yards) reclaimed	420
Summarize any additional remediation activities not included by answers (above)	Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater was determined to be less than 50 feet bgs within 0.5 miles of the Site and some sensitive receptors were identified near the release extent. As such, the Site was remediated according to the most stringent Table I Closure Criteria. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2334153994.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 09/05/2024
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QUESTIONS, Page 7

Action 381066

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381066
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 381066

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	381066
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2334153994 RGA #2 & #3 BATTERY, thank you. This Remediation Closure Report is approved.	10/17/2024